

PROPOSAL OF WORK:

**Emergency Management Team
Sewer and Water Board of City of New Orleans**

The Water Institute of the Gulf
301 N. Main Street, Suite 2000, Baton Rouge, LA 70825

- 1. Project Title:** Support to the Emergency Management Team
- 2. Principal Investigator(s):** Ehab Meselhe and Eric White
- 3. Statement of Work (Appendix "A" for each subtask)**
- 4. Period of Performance:** August 21, 2017 to November 30, 2017
- 5. Specified Deliverable Items:**
Interim Report documenting the team's recommendations on Immediate (emergency), interim (near-term), and long-term actions to understand / address emergency flooding issues and plan for long-term sustainability
- 7. Budget:** Time and Material (Appendix "B")

Appendix A: Statement of Work

In response to the request from the City of New Orleans, The Water Institute of the Gulf proposes the following Statement of Work: Support to the Emergency Management Team. The project will be developed and administered by The Water Institute under the guidance of the Sewer and Water Board of the City of New Orleans.

Anticipated Sub/Consultants: Deltaires USA, Alex McCorquodale
Schedule: August 21, 2017 to November 30, 2017

The Water Institute (WI) will provide support to the Emergency Management Team under the guidance of the Sewer and Water Management Board of the City of New Orleans. The Water Institute tasks will include:

- Review and evaluate the existing surface and sub-surface drainage models: their level of integration and ability to accurately capture flood extent and duration.
- Review and evaluation of the existing monitoring system for: rainfall, pump operations, flood depths, water level at various points within the drainage system.
- Provide an expert opinion and recommendations on how to develop a holistic view of how the City of New Orleans can effectively respond to flood-inducing events—both local rainfall events and coastal (storm) events.
- Work jointly with the members of the Emergency Management (namely Veolia and CH2M) to comprehensively evaluate the pump operations/capacity, power related issues, drainage components (monitoring, models, and flood warning systems).
- Review existing drainage and flood warning systems in other communities such as the City of Dallas and Austin, Texas.
- Participate in the development of an interim report with a set of recommendations on a phased-approach to reduce the City's reliance on the pumps while considering other techniques to accommodate flood water (e.g. retention areas).